

# Daily Report

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## Attic

I discussed with Huang Xinxin for the Attic Milestone 1 today. A preliminary survey and implementation was planned:

- After an investigation of Mockingbird, the web-based UI prototyping tool showed in yesterday's seminar, it is not necessary that all the panels are implemented using the RIA frameworks like ExtJS or JQuery-ui. So I let Xinxin to find out how to make frames and drag-and-drop interaction with HTML5 in this week.
- For Xinxin has relatively more time than other members, during these weeks she will begin to implement what we have discussed yesterday with me.

## Research

For the knowledge transfer project, there are some issues that need further thinking (summarized from previous reports and today's discussion with Wu Feiran):

- There is no need to stick to specific transfer learning algorithms like before, which seems to be an dead end for now.
- For a user, it should be available for him to take advantage of gaining help from analysis outputs generated by other users. Take building text classifiers as an example, the user can access to the historical records of how others labeled training data, how they tuned the parameters, and how fine is their result. What is more, the user can reuse the labeled training data and combine existing models into the new model.
- To support the feature above, there should be some methods to collect user's "soft data", like their labeling operations and processes of tuning a model. Also, user can write text comments on every operations. To reuse them effectively, it is necessary to find a way of searching all the "knowledges" generated by previous users.
- It may be possible if we can design a paradigm of generating soft data and reuse them, just like what the authors did in the Semantic Interaction, where they introduced soft data as an element into the visualization pipeline.
- There are still some problems on the machine learning support. One of the main problem is to find a model that supports combinations and reusing of different models. This is also an issue mentioned by Prof. Tung in their research projects and I decide to ask him for further information.

In the next few days I will focus on this to find potential research problems.